























6-11 May 2018 ISTANBUL

EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:

ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES

Benefits of OGD for providers of authoritative data

Jürg Lüthy and Christian Kaul















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Agenda

- Introduction
- Open Government Philosophy Data for spatial data
- Evolution of OGD in Cadastral Data of Canton Zurich
- Incorporation of VGI in OGD Infrastructure
- Case study: Obstacle mapping @ FOCA
- Conclusion & Outlook















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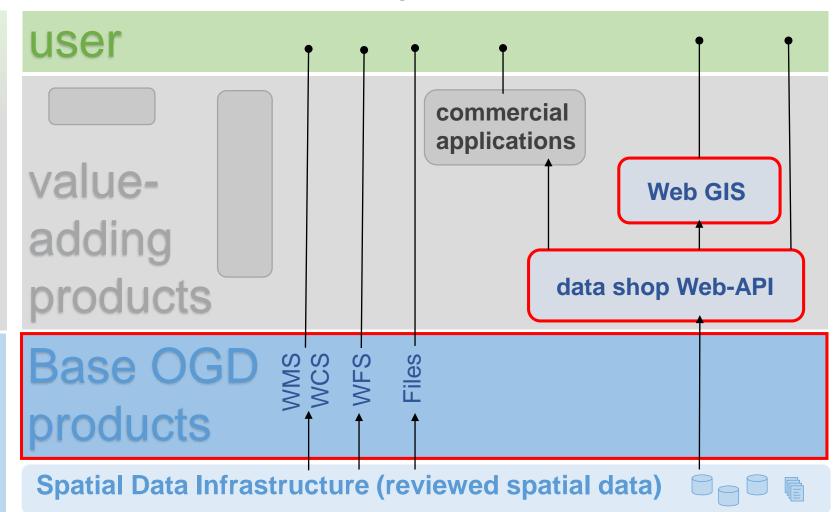
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Open Government Data Philosophy

free market

Government



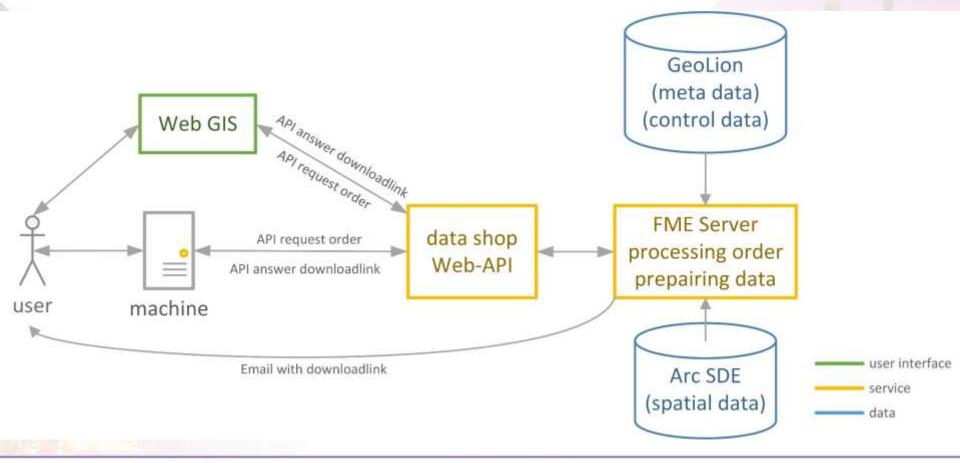


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Evolution of OGD in Cadastral Data of Canton Zurich

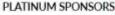


















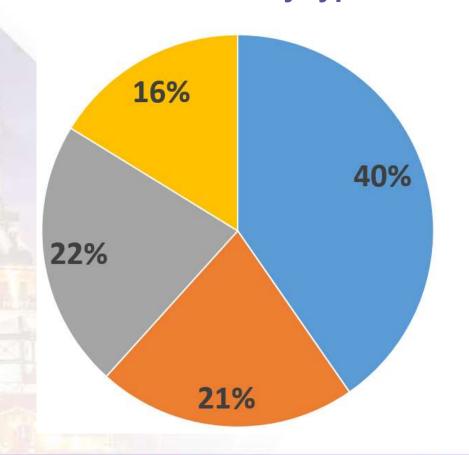


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Number of orders by type of data



- Cadastral Data (parcels; buildings; landcover; etc.)
- Reference Data (DTM; DSM; etc.)
- Base Data (PLR; adresses; etc.)
- All other spatial **Datasets**

















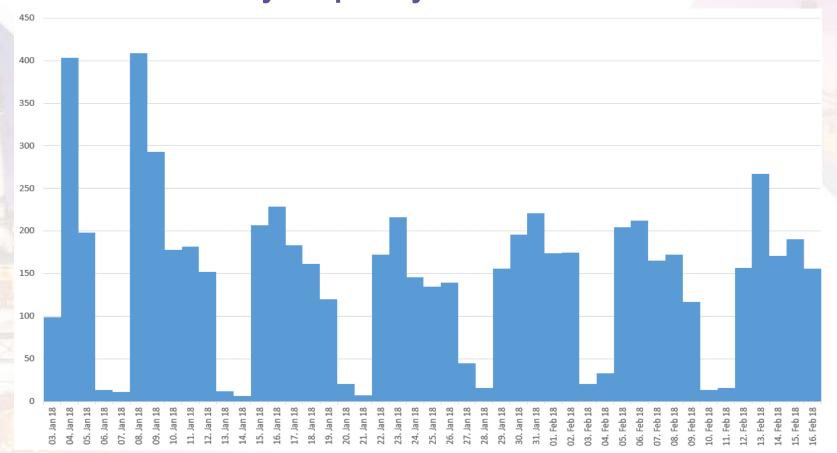


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Data orders – daily frequency



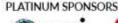


















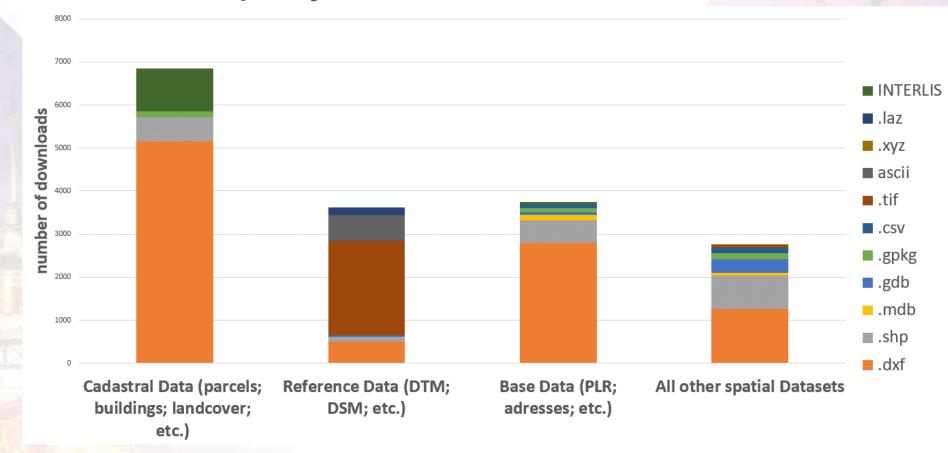


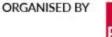
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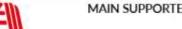
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Data orders – split by data format























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Main issues in all SDI – data quality

- How can data quality be maintained over long period?
- How can the workload be optimized, cost minimized?
- Inclusion of citizen is considered to be beneficial:
 - Raise awarness for data (availability),
 - Include their knowledge for continuos improving.
- The more data sets are used, the better the quality















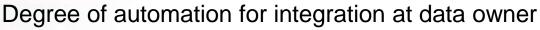
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Incorporation of VGI in OGD Infrastructure

Simplicity for users **Direct** editing Semistructured Web form



















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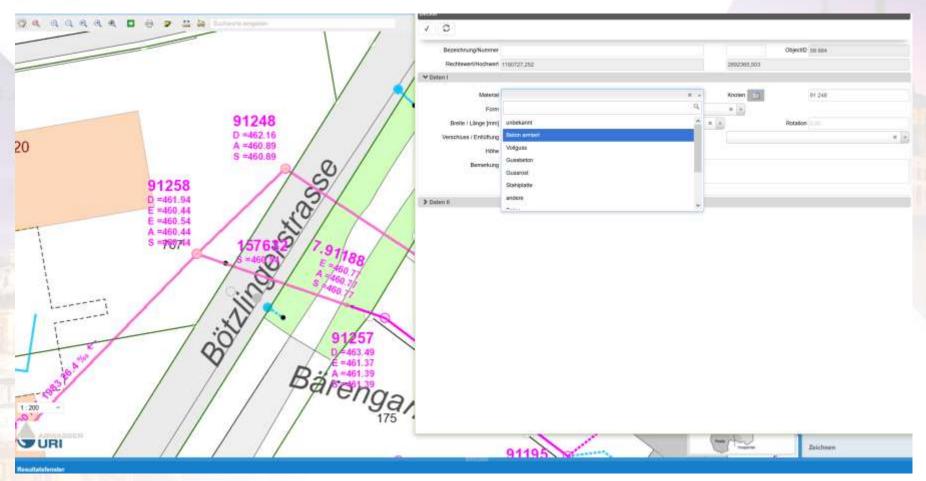




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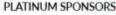




















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Case study: Obstacle mapping @ FOCA

- Federal Office of Civil Aviation (FOCA) is responsible for aviation development and the supervision of civil aviation activities in Switzerland.
- What is their interest in VGI?

















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Today: Touch down on the runway
Tomorrow: heading to data point (3D coordinate)

Need for up-to-date, complete data set about obstacles! N 033.937277 E -118.383373 H 98.4 ft



















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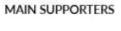
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Reporting Form

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Conclusion and outlook

- With publication of many authoritative data sets under OGD the use of spatial data has entered a new era.
- VGI can be used in particular for authoritative data as a useful addition to the classic data maintenance processes.
- With VGI, the data quality can be significantly increased again, which benefits all users.
- New technologies incorporated (Atom Publishing Protocol, OpenSearch)
- VGI feedback loops upgraded to level 2 and later towards level 3.











